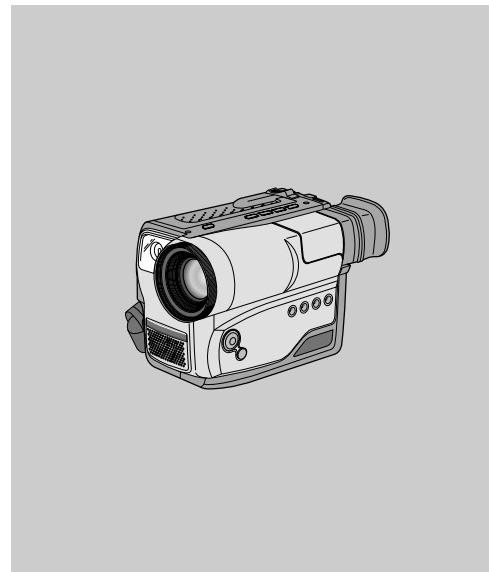


**ENGLISH**

**Video Camcorder**  
**8mm**

**SCW61/W62**

**Hi 8 SCW61/W62**



**Owner's Instruction Book**  
Before operating the unit, please read  
this instruction book thoroughly, and retain it for  
future reference.

**SAMSUNG**  
ELECTRONICS

**US**

## **ENGLISH**

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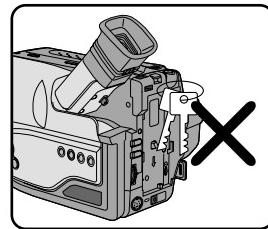
## **ENGLISH**

# Notices and Safety Instructions

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### ***Taking care of the battery pack***

- ⌘ Do not allow any metal objects to touch the terminals, as this can cause a short circuit and damage the battery pack.

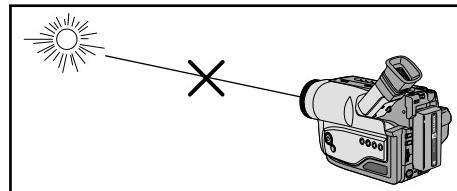


### **Keep the terminals clean.**

- ⌘ The camera, adapter or battery pack will not work properly if the terminals are dirty. Check them before use, and wipe them with a dry cloth or tissue if necessary.

### ***Notices regarding the LENS***

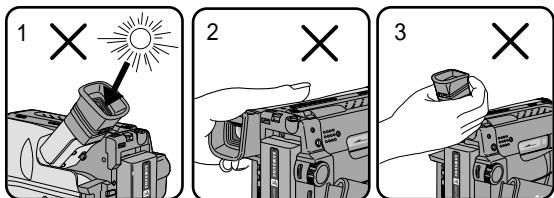
- ⌘ Do not let LENS point toward the sun. Direct sunlight can damage the CCD.  
(\*CCD: Charge Coupled Device)



## Notices and Safety Instructions

### *Notices regarding electronic viewfinder*

- 1) Do not place the camcorder so that the viewfinder is pointing towards the sun. Direct sunlight can damage the inside of the viewfinder. Be careful when placing the camcorder under sunlight or by a window.
- 2) Do not pick up the camcorder by the viewfinder.
- 3) Unintended rotation may cause damage to the viewfinder.

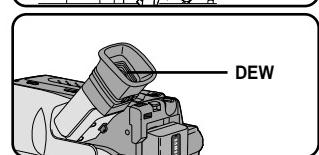


### *Notices regarding moisture condensation*

- 1) A sudden rise in atmospheric temperature may cause condensation to form inside the camcorder.

**for example:**

- When you take the camcorder from cold temperature outside to warm temperature inside during the winter.
  - When you take the camcorder from cool temperature inside to hot temperature outside during the summer.
- 2) If the "DEW" protection feature is activated, leave the camcorder in a dry, warm room with the cassette compartment opened and the battery removed.
  - 3) If the "DEW" protection feature is activated unexpectedly, and you want to override it, detach, then reinstall the battery pack and lithium battery.  
Please make sure that the condensation has disappeared completely. (see page 60)



## **ENGLISH**

# Notices and Safety Instructions

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### ***Notices regarding the battery pack***

- ⌘ Make sure that the battery pack is charged before recording outdoors.
- ⌘ To preserve battery power, keep your camcorder turned off when you are not operating it.
- ⌘ When your camcorder is in CAMERA mode, if it is left in STANDBY for more than 5 minutes without operation, it will automatically turn off to protect against unexpected battery discharge.
- ⌘ Make sure that the battery pack is fitted firmly into place.  
Dropping the battery pack might damage it.
- ⌘ When the battery reaches the end of its life, please contact your local dealer.  
The batteries have to be dealt with as chemical waste.

### ***Notices regarding the Lithium battery***

**Warning: Keep the LITHIUM BATTERY out of the reach of children. Should the battery be swallowed, consult a doctor immediately.**

- ⌘ The lithium battery maintains the clock function, TITLE, CUSTOM function and preset contents memory; even if the battery pack or AC power adapter is removed.
- ⌘ The lithium battery for the camcorder lasts about 8-10 months under normal operation from time of installation.
- ⌘ When the lithium battery becomes weak or dead, the date/time indicator flashes about 5 seconds when you set the power switch to CAMERA. In this case, replace the lithium battery with type CR2025. (see page 20)

**WARNING:**

LITHIUM BATTERY MUST BE  
RECYCLED OR DISPOSED  
OF PROPERLY.



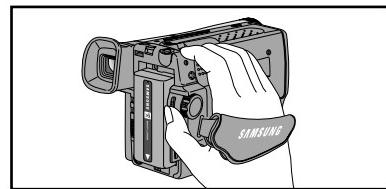
\*When the lithium battery becomes weak or dead please contact your local dealer. The batteries have to be dealt with as chemical waste.

## Notices and Safety Instructions

### ***Notices regarding the hand strap***

- ⌘ It is very important to adjust the hand strap for better recording. (see page 19)
- ⌘ Do not insert your hand in the hand strap forcibly, the buckle may be damaged.

**Note:** Do not carry the camcorder by the handstrap only.



### ***Notices regarding video head cleaning***

- ⌘ To ensure normal recording and clear picture, clean the video heads. When playing back the pictures, if they are noisy or hardly visible, the video heads may be dirty. If this happens, clean the video heads with a dry type cassette cleaner.
- ⌘ Do not use a wet type cassette cleaner. It may damage the video heads. (see page 55)

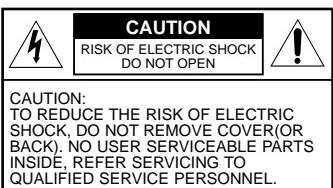
### ***5 minutes off timer in STANDBY mode***

- ⌘ To protect against tape and head-drum wear, your camcorder will automatically turn off if it is left in STANDBY mode without operation for more than 5 minutes.

## ENGLISH

# Notices and Safety Instructions

### Safety Instructions



To prevent electric shock, match wide blade of plug to wide slot and fully insert.



This symbol is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of fire or electric shock.



This symbol is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying this product.

#### 1. READ INSTRUCTIONS:

All the safety and operating instructions should be read before the CAMCORDER is operated.

#### 2. RETAIN INSTRUCTIONS:

The safety and operating instructions should be retained for future reference.

#### 3. HEED WARNINGS:

All warnings on the CAMCORDER and in the operating instructions should be adhered to.

#### 4. FOLLOW INSTRUCTIONS:

All operating and maintenance instructions should be followed.

#### 5. CLEANING:

Unplug this CAMCORDER from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a dry cloth used for dusting cabinets.

#### 6. ATTACHMENTS:

Do not use attachments not recommended by the CAMCORDER product manufacturer as they may be hazardous.

#### 7. WATER AND MOISTURE:

Do not use this CAMCORDER near water; for example, near a bathtub, wash bowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool or lake.

#### 8. ACCESSORIES:

Do not place this CAMCORDER on an unstable cart, stand, tripod, bracket or table.

The CAMCORDER may fall, causing serious injury to a child or adult, and serious damage to the unit.

Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the CAMCORDER. Any mounting of the unit should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.

A. An appliance and cart combination should be moved with care.

Quick stops, excessive force and uneven surfaces may cause the appliance and cart combination to overturn.

PORTRABLE CART WARNING  
(Symbol provided by RETAC)



## Notices and Safety Instructions

### 9. VENTILATION:

Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the CAMCORDER and to protect it from overheating. These openings must not be blocked or covered. Never place your CAMCORDER on a bed, sofa, rug, or other similar surface: on or near a radiator or heat register. This CAMCORDER should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

### 10. POWER SOURCES:

The CAMCORDER should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supply at your home, consult your appliance dealer or local power company. A CAMCORDER is intended to be operated from battery power, or other sources, refer to the operating instructions.

### 11. GROUNDING OR POLARIZATION:

This CAMCORDER may be equipped with either a polarized 2-wire AC line plug (a plug having one blade wider than the other) or a 3-wire grounding type plug, a plug having a third (grounding) pin. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your outlet. Do not defeat the safety purpose of the polarized plug.

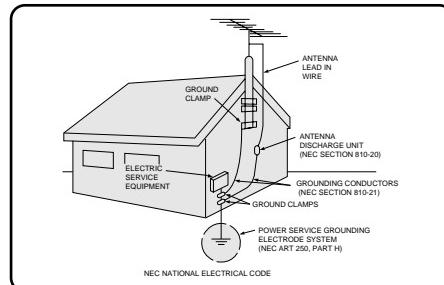
### 12. POWER-CORD PROTECTION:

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords or plugs, convenient receptacles, and the point where they exit from the unit.

### 13. OUTDOOR ANTENNA GROUNDING:

If an outside antenna or cable system is connected to the CAMCORDER, be sure the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges, Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire and supporting structure, grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding to conductors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode.

See figure below.



## **ENGLISH**

# **Notices and Safety Instructions**

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### **14. LIGHTNING:**

For added protection of this CAMCORDER during a lightning storm or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system.

This will prevent damage to the CAMCORDER due to lightning and power-line surges.

### **15. POWER LINES:**

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits where it can fall into such power lines or circuits.

When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

### **16. OVERLOADING:**

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

### **17. OBJECTS AND LIQUIDS:**

Never push objects of any kind into this CAMCORDER through openings as they may touch dangerous voltage points or short out a part that could result in a fire or electric shock.

Never spill liquids of any kind onto the CAMCORDER. Should spillage occur, unplug unit and have it checked by a technician before use.

### **18. SERVICING:**

Do not attempt to service this CAMCORDER yourself. Opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

### **19. DAMAGE REQUIRING SERVICE:**

Unplug this CAMCORDER from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power-supply cord or plug is damaged.
- b. If any liquid has been spilled onto, or objects have fallen into the CAMCORDER.
- c. If the CAMCORDER has been exposed to rain or water.
- d. If the CAMCORDER does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the CAMCORDER to its normal operation.
- e. If the CAMCORDER has been dropped or the cabinet has been damaged.
- f. When the CAMCORDER exhibits a distinct change in performance, this indicates a need for service.

### **20. REPLACEMENT PARTS:**

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer and having the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

### **21. SAFETY CHECK:**

Upon completion of any service or repairs to this CAMCORDER, ask the service technician to perform safety checks to determine that the CAMCORDER is in safe operating order.

**ENGLISH**

## **Notices and Safety Instructions**

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### **NOTE TO CATV SYSTEM INSTALLER:**

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

### **USER INSTALLER CAUTION:**

Your authority to operate this FCC certified equipment could be voided if you make changes or modifications not expressly approved by this party responsible for compliance to part 15 FCC rules.

## **ENGLISH**

# Getting to Know Your Camcorder

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### **Features**

Your camcorder has many features for recording and playing back.

#### **BLC**

■ BLC: Back Light Compensation.

When you record a subject with the light source behind the subject or a subject with a light background, use the BLC function. (see page 37)

#### **DSE (Digital Special Effects)**

The DSE enables you to give a creative look to your films by adding various special effects.  
(see page 40)

#### **Program AE (Auto Exposure)**

The Program AE enables you to adapt the shutter speed and aperture to adjust to the type of scene to be filmed. (see page 38)

#### **22x High ratio zoom lens**

Zooming is a recording technique that lets you change the size of the subject in the picture.  
For more professional recordings, use the zoom function. (see page 31)

#### **Digital Zoom**

Zooms more than 22x are performed digitally. (see page 32)

#### **Macro**

The macro function allows you to record your subject at close range.  
You have to adjust the zoom fully wide for macro recording. (see page 31)

#### **EASY**

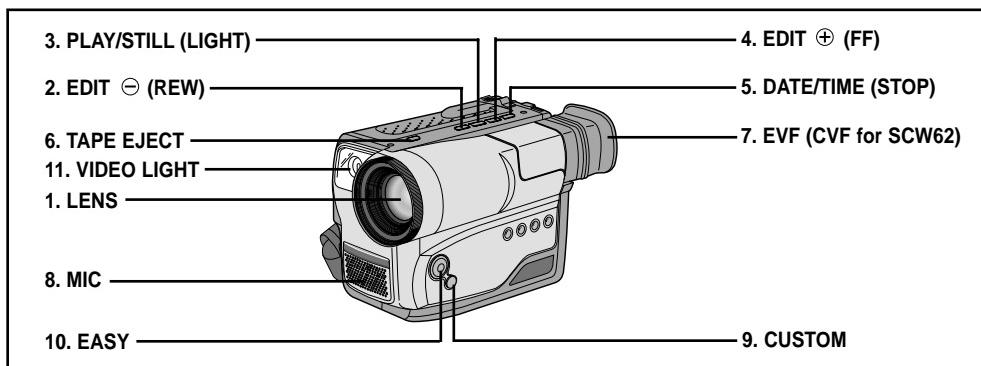
This mode enables even the beginner to easily make a recording. (see page 34)

#### **Multi PLAYBACK (PAL60)**

PAL60 is a special output signal format with which a tape recorded on this camcorder (NTSC format) can be viewed on a PAL TV.

## Getting to Know Your Camcorder

### Front View

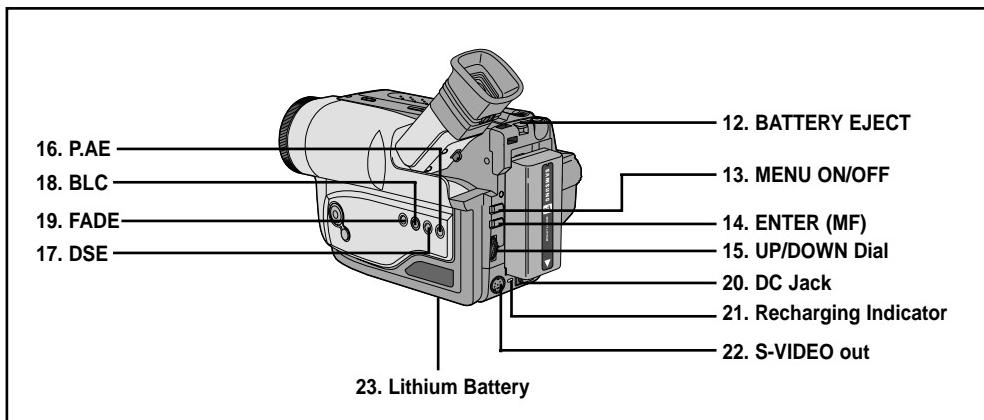


1. **Lens** (see page 61)
2. **EDIT ⊖ (REW)**  
EDIT ⊖ works in STANDBY mode.  
(see page 27)  
REW works in PLAYER mode. (see page 52)
3. **PLAY/STILL (LIGHT)**  
PLAY/STILL works in PLAYER mode.  
(see page 51)  
LIGHT works in CAMERA mode.
4. **EDIT + (FF)**  
EDIT + works in STANDBY mode.  
(see page 27)  
FF works in PLAYER mode. (see page 52)
5. **DATE/TIME(STOP)**  
DATE/TIME works in CAMERA mode.  
(see page 42)  
STOP works in PLAYER mode. (see page 51)
6. **TAPE EJECT (see page 25)**  
Use when ejecting the tape.
7. **EVF (Electronic Viewfinder)**
8. **MIC**  
MIC works in CAMERA mode.
9. **CUSTOM**  
CUSTOM works in CAMERA mode.
10. **EASY**  
EASY works in CAMERA mode.
11. **VIDEO LIGHT**

**ENGLISH**

## Getting to Know Your Camcorder

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**Side View****12. BATTERY EJECT****17. DSE (see page 40)**

DSE works in CAMERA and PLAYER mode.

**13. MENU ON/OFF (see page 42)**

MENU ON/OFF works in CAMERA and  
PLAYER mode.

**18. BLC (see page 37)**

BLC works in CAMERA mode.

**14. ENTER (MF) (see page 42)**

ENTER works in MENU mode.  
MF works in CAMERA mode.

**19. FADE**

FADE works in CAMERA mode.  
(see page 46)

**15. UP/DOWN dial (see page 42)**

UP/DOWN dial works in MENU mode.

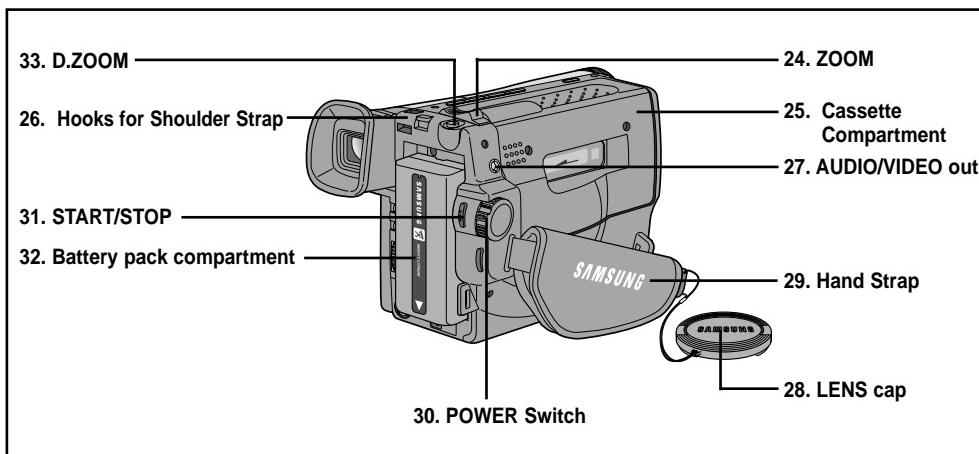
**20. DC Jack****16. PROGRAM AE (see page 38)**

PROGRAM AE (Auto Exposure) works in  
CAMERA mode.

**21. Recharging Indicator****22. S-VIDEO out****23. Lithium Battery (see page 20)**

## Getting to Know Your Camcorder

### Rear View



24. ZOOM (see page 32)

31. START/STOP (see page 26)  
START/STOP works in CAMERA mode.

25. Cassette Compartment

32. Battery pack compartment (see page 22)

26. Hooks for Shoulder Strap (see page 20)

33. D.ZOOM (see page 32)  
D.ZOOM works in CAMERA mode.

27. AUDIO/VIDEO out (see page 50)

28. LENS cap

29. Hand Strap (see page 19)

30. POWER Switch (see page 22)

- CAMERA : Select to record.
- OFF : Select to turn off the camcorder.
- PLAYER : Select to play back.

## ENGLISH

# Getting to Know Your Camcorder

### OSD (On Screen Display)

- ⌘ You can turn the OSD on/off by setting the Display menu on/off.
- ⌘ The TITLE, DATE/TIME, EASY and CUSTOM functions can be operated even after the OSD is turned off.
- ⌘ The OSD is displayed in the viewfinder and the monitor.

#### a. Zoom position (see page 32)

Indicates zoom position.

#### b. PB DSE

Shows that the PB DSE mode is active.

#### c. Battery level (see page 24)

Indicates the power left in the battery.  
( )

#### d. Manual Focus (see page 36)

Indicates manual focus is on.  
Auto Focus is not displayed.

#### e. BLC (see page 37)

Indicates BLC is activated.

#### f. Program AE (see page 38)

Indicates Program AE mode is activated. ( , , , , )

#### g. EASY & CUSTOM

Shows when the easy or custom mode is active.

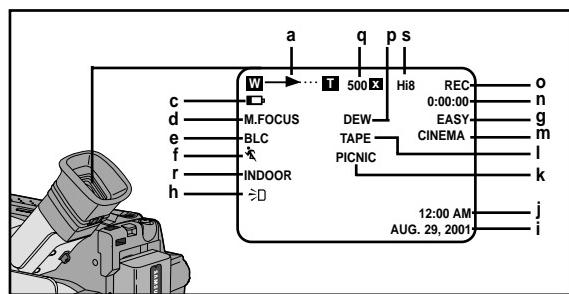
#### h. LIGHT

Shows when the Light is switched on.

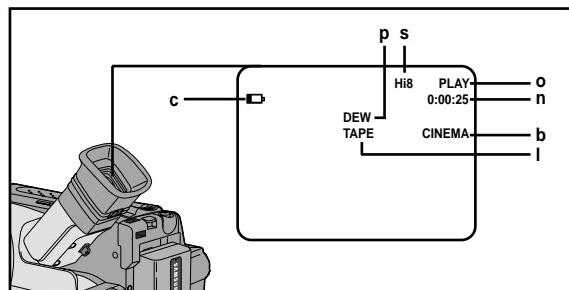
#### i. Date (see page 42)

Indicates the date of the recording.

OSD in CAMERA mode



OSD in PLAYER mode



## Getting to Know Your Camcorder

### *OSD (On Screen Display)*

- j. **Time (see page 42)**  
Indicates the time you are recording.
- k. **Title (see page 44)**  
Indicates the recorded title you have set.  
It is superimposed on the scene.
- l. **Self diagnosis (see page 57)**  
(TAPE, TAPE END) Checks the operation of the Camcorder.
- m. **DSE (Digital Special Effect) (see page 40)**  
Indicates the DSE mode is activated.  
The operation modes are SEPIA, B/W, NEG., MIRROR, ART, MOSAIC, WIDE(16:9) and CINEMA.
- n. **Tape counter**  
Indicates amount of the tape used.
- o. **Operation mode**  
Indicates the operation mode is activated.  
The operation modes are STBY, REC, STOP, PLAY, FF, REW, EJECT.
- p. **DEW condensation (see page 60)**  
Monitors the moisture condensation.
- q. **Digital zoom (see page 32)**  
Indicates digital zoom is activated.
- r. **White Balance mode (see page 47)**  
Indicates the White Balance mode is activated.  
The White Balance modes are AUTO, INDOOR and OUTDOOR.
- s. **Hi8**  
Indicates the use of the Hi8 tape in recording or playing back modes.

## **ENGLISH**

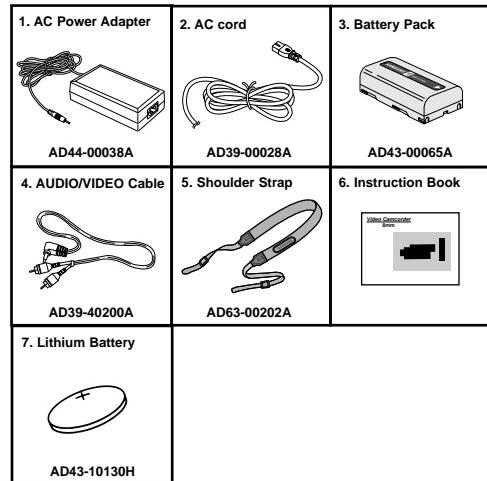
# Getting to Know Your Camcorder

### **Accessories Supplied with the Camcorder**

Make sure that the following basic accessories are supplied with your camcorder.

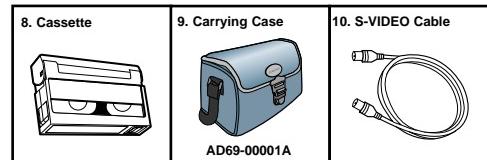
#### **Basic Accessories**

1. AC Power Adapter. (see page 21)
2. AC cord. (see page 21)
3. Battery Pack. (see page 22)
4. Audio/Video Cable. (see page 50)
5. Shoulder strap. (see page 20)
6. Instruction Book.
7. Lithium Battery for Clock.  
(TYPE: CR2025, see page 20)



#### **Optional Accessories**

8. Cassette. (see page 25)
9. Carrying Case.
10. S-VIDEO Cable. (see page 51)



## **Preparing**

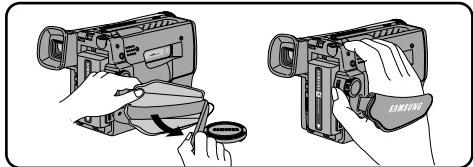
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### ***Adjusting the Hand Strap and Shoulder Strap***

#### **Hand Strap**

- ⌘ It is very important to adjust the hand strap for better recording.
- ⌘ The hand strap enables you to:
  - Hold the camcorder in a stable, comfortable position.
  - Press the Zoom and the red Record button without having to change the position of your hand.

1. Pull open the Hand Strap cover and release the Hand Strap, adjust its length and stick it back onto the Hand Strap cover.
2. Close the Hand Strap cover back up again.



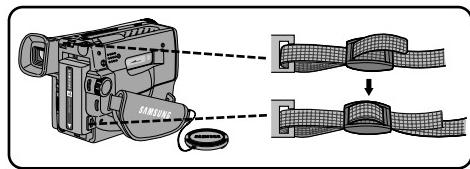
## ENGLISH

# Preparing

### Shoulder Strap

⌘ The Shoulder Strap allows you to carry your camcorder with complete safety.

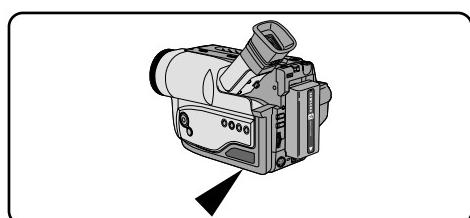
1. Insert each end of the strap into the hooks on the camcorder.
2. Put the end of each strap through the buckle, adjust the length of the strap, then pull it tight in the buckle.



### Lithium Battery Installation

- ⌘ The lithium battery maintains the clock function, title and preset contents of the memory; even if the battery pack or AC power adapter is removed.
- ⌘ The lithium battery for the camcorder lasts about 8~10 months under normal operation from the time of installation.
- ⌘ When the lithium battery becomes weak or dead, the date/time indicator flashes for about 5 seconds when you set the power switch to CAMERA.  
When this occurs, replace the lithium battery with type CR2025.

1. Take out the holder from the lithium battery compartment.
2. Insert the + side of the lithium battery toward the bottom of the holder.
3. Reinsert the holder into the lithium battery compartment.



**Note:** If the holder is inserted in the wrong direction, it will not fit correctly.

**Warning:** Keep the LITHIUM BATTERY out of the reach of the children. Should the battery be swallowed, consult a doctor immediately.

## Preparing

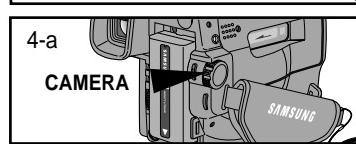
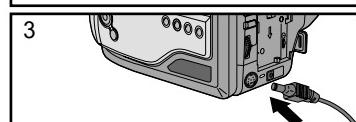
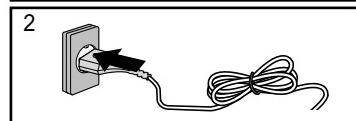
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### *Connecting the Power Source*

- ⌘ There are two ways to connect power source.
- Using the AC Power Adapter : used for indoor recording.
  - Using the Battery Pack: used for outdoor recording.

#### To use the AC Power Adapter

1. Connect the AC Power Adapter to the AC cord.
  
  
  
  
2. Connect the AC cord to a wall socket.
  
  
  
  
3. Connect the other end of the DC cable to DC jack of the camcorder.
  
  
  
  
4. To set the camcorder to the CAMERA mode.
  - a. Hold down the tab of the power switch and push the switch to CAMERA mode.
  - b. Make sure that the Lens Cap is open.
  - c. Make sure that the image appears in the Viewfinder.



**Note:** If the adapter is used next to a TV or the camcorder, it may cause the TV or camcorder to emit noise. Move the adapter away from the TV, camcorder or the antenna cable.

## ENGLISH

# Preparing

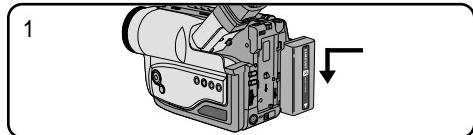
### To use the Battery Pack

#### How long will the battery last for recording?

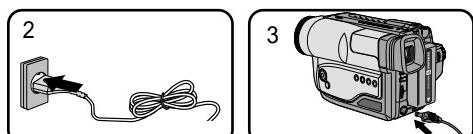
⌘ Depends on how often zoom lens is used in recording. Prepare as many battery packs as possible.

#### Recharging the Battery Pack

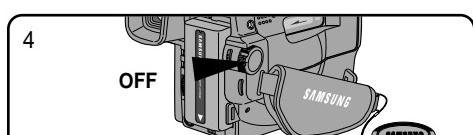
1. Attach the battery pack to the camcorder.



2. Connect the AC Power Adapter to the AC cord and connect the AC cord to a wall socket.
3. Connect the DC cable to the DC jack of the camcorder.



4. Turn off the camcorder power, and the recharging indicator will start blinking and begin recharging.
  - Blinking once a second : Indicates less than 50% has been charged.
  - Blinking twice a second : Indicates 50% ~ 75% has been recharged.
  - Blinking three times a second : Indicates 75% ~ 100% has been recharged.
  - Blinking stops and stays on : Recharging has been completed.
  - On for a second and off for a second : Indicates there is an error. Reset the battery pack and DC cable.



5. If recharging is completed, separate the camcorder, AC power adapter, and battery pack.
  - Even if the power is turned off, battery will be discharged.

**Note:** Battery pack may be charged a little at the time of purchase.

## Preparing

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### *Using the Battery Pack*

#### **Continuous recording time table based on model and battery type**

Battery Type \ Model	SCW61	SCW62
SB-L110A	Approximately 150 minutes	Approximately 150 minutes
SB-L160	Approximately 220 minutes	Approximately 220 minutes
SB-L320	Approximately 430 minutes	Approximately 430 minutes
SB-L480	Approximately 640 minutes	Approximately 640 minutes

- ⌘ The continuous recording times given in the table are approximate. Actual recording time depends on usage.

**Notes:**

- ⌘ The battery pack should be recharged in a room temperature that is between 32°F(0°C) and 104°F(40°C). It should never be charged in a room temperature that is below 32°F(0°C).
- ⌘ The life and capacity of the battery pack will be reduced if it is used in temperatures below 32°F(0°C), even when it is fully recharged.
- ⌘ The life and capacity of the battery pack will be reduced if the battery pack is left in temperatures above 104°F(40°C) for a long period, even when it is fully recharged.
- ⌘ Do not put the battery pack near any heat source (fire or flames, for example).

## **ENGLISH**

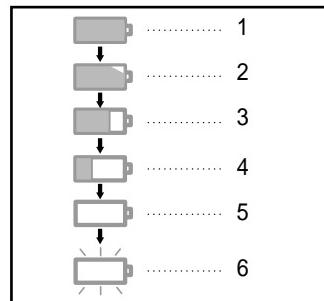
# **Preparing**

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### **Battery Level Display**

⌘ The battery level display indicates the amount of power remaining in the battery pack.

1. Fully charged
2. 10~45% consumed
3. 45~70% consumed
4. 70~90% consumed  
(prepare a charged one)
5. 90~95% consumed  
(change the battery)
6. 100% consumed  
(camcorder will turn off soon, change the battery as soon as possible)



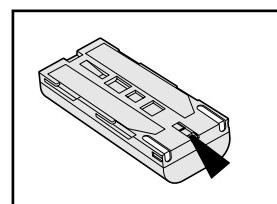
⌘ Please refer to the table on page 23 for approximate continuous recording times.

⌘ The recording time is affected by environmental temperature and conditions. The recording time becomes very short in a cold environment. The continuous recording time in the operating instructions is measured under the condition of using a fully charged battery pack at 77°F(25°C). As environmental temperatures and conditions may be different when you actually use the camcorder, the remaining battery time may not be the same as the approximate continuous recording times given in these instructions.

### **Tips for Battery Identification.**

A charge mark is provided on the battery pack to help you remember whether it has been charged or not.

Two colors are provided (red and black)-you may choose which one indicates charged and which indicates discharged.



**Note:** The charge mark does not affect the battery's charge status.

## Preparing

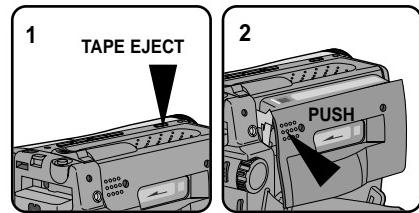
### *Inserting and Ejecting a Cassette*

- ⌘ There are several cassette types, depending on:
- Color system used
  - Recording/Playback time
  - Hi8

### *Inserting and Ejecting a Cassette*

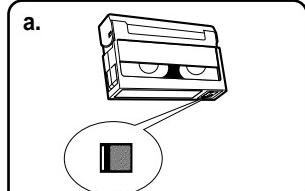
- ⌘ Check to see if the battery pack is in place or AC adapter is connected.

1. Press the **EJECT** button.
  - The compartment opens automatically.
  - Insert the cassette with the transparent window facing outward and the protection tab toward the top.
2. Press the **PUSH** mark until the compartment clicks into place.

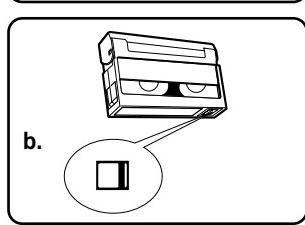


**Note:** When you have recorded a cassette that you wish to keep, you can protect it from being accidentally erased.

- a. **Recording Impossible (Protection):**  
Push the red tab on the cassette to cover up the opening.



- b. **Recording possible:**  
If you no longer wish to keep the recording on the cassette, push the red tab back so that it no longer covers up the opening.



## **ENGLISH**

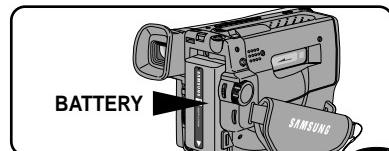
# **Basic Recording**

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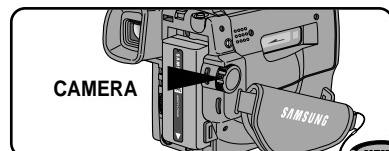
### ***Making your First Recording***

Please make these preparations before recording.

- Did you connect a power source?  
(Battery Pack or AC Power Adapter)

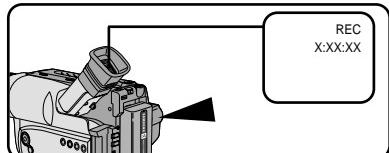


- Did you set the power switch to CAMERA position?



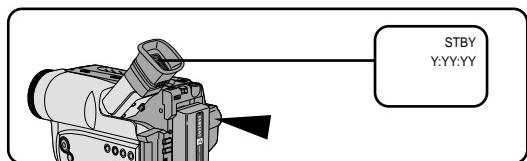
- Did you insert a cassette? (see page 25)
- Make sure that STANDBY is displayed in the OSD (if the red tab of the cassette is opened, STANDBY will not be displayed)
- Did you open the LENS CAP?
- Make sure the image you want to record appears in the Viewfinder.
- Make sure the battery level indicates that there is enough remaining power for recording. (see page 24)
- We recommend that beginners, who are using the camcorder for the first time, switch the EASY mode on. (see page 34)

- a. To start recording, press the red START/STOP button.  
Recording starts and REC should be displayed on the Viewfinder.



## Basic Recording

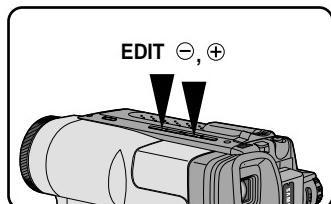
- b. To stop recording, press the red START/STOP button again.  
When Recording stops, STANDBY should be displayed on the Viewfinder.



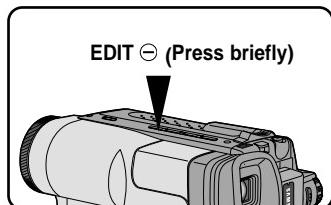
When a cassette is loaded and the camcorder is left in STANDBY mode for over 5 minutes without being used, it will turn off automatically. To use it again, push the red START/STOP button or set the power switch to OFF and then back to CAMERA. This Auto Power Off feature is designed to save battery power and to protect the Head Drum and tapes.

### Edit

- ⌘ You can view a recorded picture with the EDIT  $\ominus$ ,  $\oplus$  function in STANDBY mode. EDIT  $\ominus$  allows you to reverse and EDIT  $\oplus$  allows you to forward, for as long as you keep pressing.



- ⌘ If you press the EDIT  $\ominus$  button briefly in STANDBY mode, your camcorder will play back in reverse for 3 seconds and return to the original position automatically.



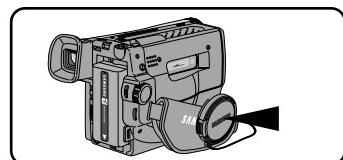
## **ENGLISH**

# **Basic Recording**

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### **Hints for Stable Image Recording**

- While recording, it is very important to hold the camcorder correctly.
- For stable recording, fix the LENS cap firmly by clipping it on the hand strap. (refer to figure)



### **Recording with the Viewfinder**

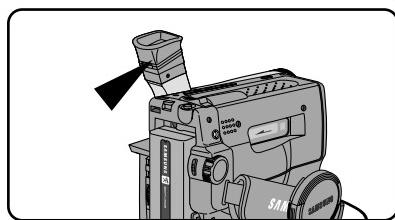
1. Hold the camcorder firmly with the hand strap. (see page 19)
2. Place your right elbow against your side.
3. Place your left hand under the camcorder to support it. Be sure not to touch the built-in microphone.
4. Choose a comfortable, stable position for the shots that you are taking. You can lean against a wall or on a table for greater stability. Do not forget to breathe gently.
5. Put your eye firmly against the eyecup.
6. Use the viewfinder frame as a guide to determine the horizontal plane.
7. Whenever possible, use a tripod.



### **Adjusting Focus of the VIEWFINDER**

#### **Focus:**

Use the focus adjustment knob of the VIEWFINDER to focus the picture.



## Basic Recording

### *Playing back a tape on the CAMCORDER*

- ⌘ You can monitor the playback picture on the Viewfinder.
- ⌘ Make sure that the battery pack is in place.

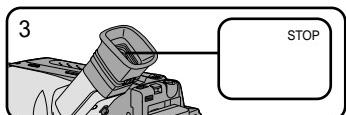
1. Hold down the tab of the power switch and push the switch to PLAYER mode.



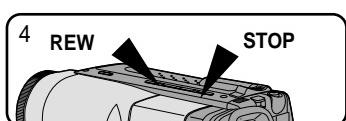
2. Insert the tape you have just recorded.



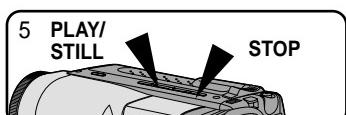
3. Make sure that STOP is displayed in the OSD.



4. Press the **◀◀ (REW)** button to rewind the tape to the beginning.
  - To stop REWIND, press the **■ (STOP)** button.
  - Camcorder stops automatically after rewinding.
5. Press the **▶▷ (PLAY/STILL)** button to start playback.
  - You can see the video you recorded in the Viewfinder.
  - To stop the PLAY operation, press the **■ (STOP)** button.



**Note:** You can also monitor the picture on a TV screen, after connecting the camcorder to a TV or VCR. (see page 50)



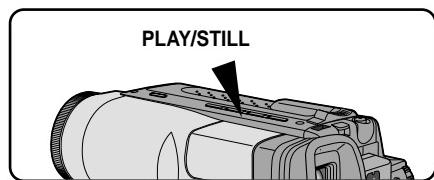
## **ENGLISH**

# **Basic Recording**

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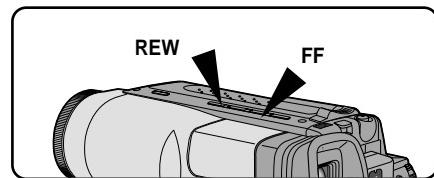
### **Viewing a Still Picture**

- Press ►|| (PLAY/STILL) button during playback.
- To resume playback, press the ►|| (PLAY/STILL) button again.



### **Picture Search**

- Keep pressing ►► (FF) or << (REW) button during playback.
- To resume normal playback, release the button.

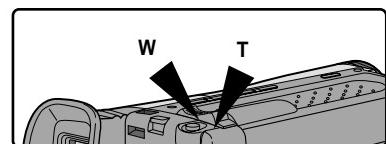


## Advanced Recording

### *Zooming In and Out*

- ⌘ Zoom works in CAMERA mode only.
- ⌘ Zooming is a recording technique that lets you change the size of the subject in the picture.  
For more professional looking recordings, use the zoom function sparingly.
- ⌘ You can also choose from two zoom speeds to suit different needs:
  - Gradual zoom (9~12 seconds from TELE/WIDE to WIDE/TELE)
  - High-Speed zoom (3~6 seconds from TELE/WIDE to WIDE/TELE)
- ⌘ Use these features for different shots; Please note that overuse of the zoom feature can lead to unprofessional looking results and a reduction of battery pack usage time.

1. Move the zoom lever a little for a gradual zoom,  
move it further for a high-speed zoom.  
Your zooming is monitored on the OSD.



2. T (Telephoto) side:  
Subject appears closer.



3. W (Wide angle) side:  
Subject appears further away.



**Note: MACRO**

If you cannot get a sharp focus in telephoto zoom, move the lever to the "W" side until the focus is sharp.

You can record a subject that is at least 1 mm away from the lens surface in the wide angle position.

## **ENGLISH**

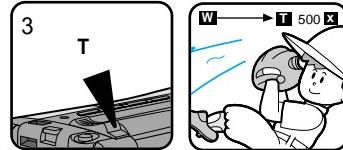
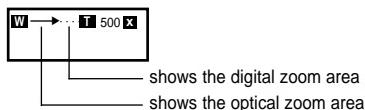
# Advanced Recording

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### **Digital Zoom**

- ⌘ Digital Zoom works in CAMERA mode only.
- ⌘ Zooms more than 22x are performed digitally.
- ⌘ The picture quality deteriorates as you go towards the "T" side.

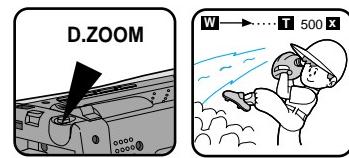
1. Set the power switch to CAMERA mode.
2. Make sure that the DIGITAL ZOOM feature is on. (see page 33)
3. When you move the ZOOM lever to the "T" side, the picture will be enlarged within 22x minimum to 500x maximum ZOOM. This is the DIGITAL ZOOM boundary.



## Advanced Recording

### Setting the DIGITAL ZOOM ON/OFF (SCW61/W62)

1. Set the power switch to CAMERA mode.
2. Press D.ZOOM ON/OFF button.
  - The DIGITAL ZOOM indicators will be displayed on the screen, and DIGITAL ZOOM function will operate.
3. To deactivate DIGITAL ZOOM function, press the D.ZOOM button again.
  - The DIGITAL ZOOM indicators disappear from the screen.



**Note:** The D.ZOOM ON/OFF function will not operate in EASY or CUSTOM mode.

## **ENGLISH**

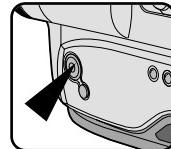
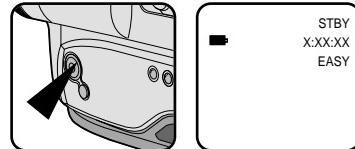
# **Advanced Recording**

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### ***EASY Mode (for Beginners)***

- ⌘ Even a beginner can easily make a recording using the EASY mode.  
■ The EASY mode only operates in CAMERA mode.

1. Set the power switch to CAMERA mode.
2. By pressing the EASY button, all the functions of the camera will be set to off and the recording settings will be set to the following basic mode.
  - Battery level, recording mode, counter, date/time will be displayed as the camcorder starts to run.
  - The word "EASY" will appear on the Viewfinder at the same time.  
However, the Date/Time will only be seen if it has been previously set.
3. Press the START/STOP button to start recording.
  - Recording will begin using the basic automatic environment settings.
4. Pressing the EASY button again turns the EASY mode off.
  - The camera will return to the settings that were set prior to the EASY mode being switched on.



**Note:** The Easy mode settings are stored in the camera (provided a good lithium battery has been installed).

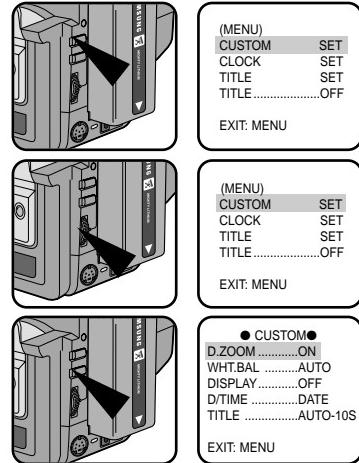
## Advanced Recording

### CUSTOM-Creating your own customized recording settings

- ⌘ You can customize the settings and save them for future use.  
 ■ The CUSTOM function only operates in CAMERA mode.

1. Set the power switch to CAMERA mode.
2. Press the MENU ON/OFF button, to bring up the MENU list.
3. Turn the UP/DOWN dial until CUSTOM.....SET is highlighted.
4. Press the ENTER button, the CUSTOM menu will appear.  
 ■ Set the status of each item to what you want.
5. To exit the menu, press the MENU ON/OFF button twice.
6. By pressing the CUSTOM button, the Custom settings will come up.  
 ■ Date/Time and Title will only appear if these have been set in advance. (see page 42)  
 ■ The word "CUSTOM" will be displayed on the Viewfinder at the same time.

**Example:** When the CUSTOM.....SET is set as follows;



7. Press the START/STOP button to start recording.  
 ■ Recording will begin using the new CUSTOM settings.
8. To switch Custom off, press the CUSTOM button once.  
 ■ The camera will revert to the settings that were set prior to the CUSTOM mode being switched on.

**Notes:**

- In CUSTOM mode, the MENU, MF, DSE and P.AE functions are not available.
- If you want to use these, you must first switch the EASY or CUSTOM mode off.
- The CUSTOM settings will be stored in the camera (provided a good lithium battery has been installed).

## **ENGLISH**

# **Advanced Recording**

### ***MF/AF (Manual Focus/Auto Focus)***

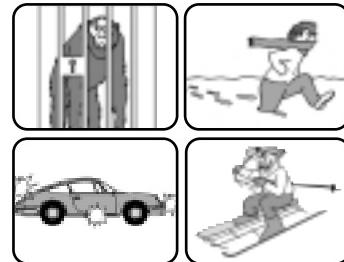
- ⌘ The MF/AF function works in the CAMERA mode only.
- ⌘ In most situations, it is better to use the Automatic Focus feature, as it enables you to concentrate on the creative side of your recording.
- ⌘ Manual focusing may be necessary under certain conditions that make automatic focusing inadequate.

#### **Auto Focusing**

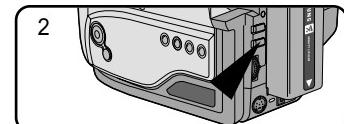
- ⌘ The AF (Auto Focus) mode is set automatically when you switch on the Power switch.
- ⌘ If you are inexperienced with camcorders, we recommend that you use the Auto Focus mode.

#### **Manual Focusing**

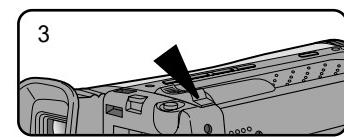
- ⌘ In the following situations, you should obtain better results by adjusting the focus manually.
- a. A picture containing several objects, some close to the camcorder, others further away.
- b. A person enveloped in fog or surrounded by snow.
- c. Very shiny or glossy surfaces like a car.
- d. People or objects moving constantly or quickly, such as an athlete or crowd.



1. Set the power switch to CAMERA mode.
2. Press the MF button.

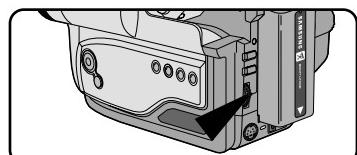


3. Zoom in the subject to be recorded by pushing the ZOOM tab to the "T" side.



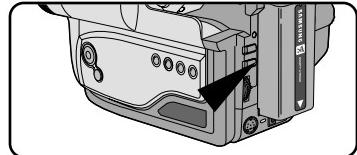
## Advanced Recording

4. Turn the UP/DOWN dial up or down until the object is focused.
5. You will obtain a sharp picture after you zoom out.



6. To return to AF(Auto Focus), press the MF button again.

**Note:** The MF function will not operate in EASY, CUSTOM or MENU mode.



### BLC

BLC works in the CAMERA mode.

Back lighting exists when the subject is darker than the background:

- The subject is placed in front of a window.
- The person to be recorded is wearing white or shiny clothes and is placed against a bright background; the person's face is too dark to distinguish their features.
- The subject is outdoors and the background is overcast.
- The light sources are too bright.
- The subject is against a snowy background.

BLC off

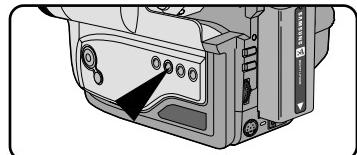


BLC on



1. Set the power switch to CAMERA mode.
2. Press BLC button.
  - Normal BLC - Normal
  - BLC enhances only the subject.

**Note:** BLC function will not operate in P.AE or EASY mode.



## **ENGLISH**

# **Advanced Recording**

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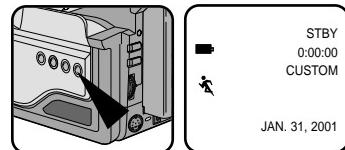
### ***PROGRAM AE (Automatic Exposure)***

- ⌘ The PROGRAM AE function works in the CAMERA mode only.
  - ⌘ The PROGRAM AE modes allow you to adjust shutter speeds and apertures to suit different recording conditions. They give you creative control over the depth of the field.
  - ⌘ There are 6 automatic exposure modes.
1. **AUTO mode**
    - Auto balance between the subject and the background.
    - To be used in normal conditions.
    - The shutter speed automatically varies from 1/60 to 1/250 second, depending on the picture.
  2. **SPORTS mode (  )**
    - For recording people or objects moving quickly; you should be able to play back the picture in slow motion on an 8 mm VCR or stop on a given image with very little blur.
  3. **PORTRAIT mode (  )**
    - For focusing on the background of the subject, the background being out of focus.
    - The PORTRAIT mode is most effective when used outdoors.
    - The shutter speed automatically varies from 1/60 to 1/1000 second, depending on the picture.
  4. **SPOTLIGHT mode (  )**
    - To record correctly when there is only light on the subject and not the rest of the picture.
    - The shutter speed is 1/60 second.
  5. **SAND/SNOW mode (  )**
    - For recording when the people or objects are darker than the background because of reflected light from sand or snow.
    - The shutter speed automatically varies from 1/60 to 1/250 second, depending on the picture.
  6. **HSS (High Speed Shutter) mode (  )**
    - For recording fast-moving subjects such as players in golf or tennis games.
    - You may need to light the recording area.

## Advanced Recording

### Setting the PROGRAM AE(Automatic Exposure) mode

1. Set the power switch to CAMERA mode.
2. Press the P.AE button, the (  ) symbol will be displayed.
3. Press the P.AE button until the appropriate symbol is displayed.  
(  →  →  →  →  )  
■ No Display : Full Auto mode.



#### Notes:

- The screen status that is changed by the P.AE button will be recorded on the tape.
- To end the P.AE function, press the P.AE button once or several times, until the P.AE Icon is no longer displayed.
- The P.AE function will not operate in EASY or CUSTOM mode.
- The BLC function will not operate in P.AE mode.

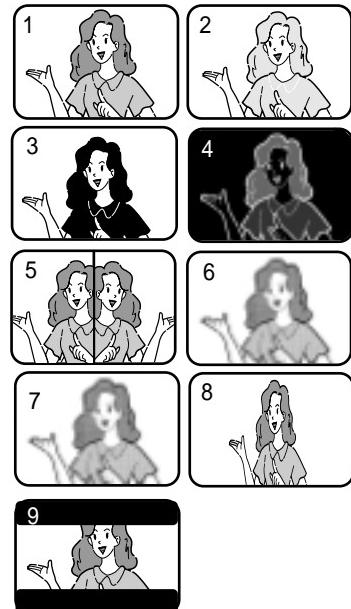
## **ENGLISH**

# **Advanced Recording**

### **DSE (Digital Special Effects) in CAMERA mode**

- ⌘ The digital effects enable you to give a creative look to your recording by adding various special effects.
- ⌘ Select the appropriate digital effect for the type of picture that you wish to record.
- ⌘ There are 8 DSE modes.

1. Normal picture
2. SEPIA: This mode gives the image a SEPIA effect.
3. B/W(Black & White): This mode allows the image to be recorded in black and white.
4. NEG.(Negative): This mode allows images to be recorded by reflecting the color of the image.
5. MIRROR: This mode cuts the image in half, using the mirror effect.
6. ART: Adds a paint-like effect, called solarization, to the image.
7. MOSAIC: This mode gives the image a checkered design.
8. WIDE(16:9): This mode provides a WIDE(16:9) television display.
9. CINEMA: This mode covers the upper/lower portion of the screen to give a movie-like effect.



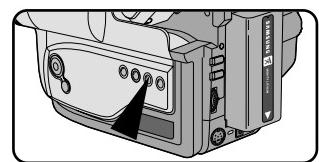
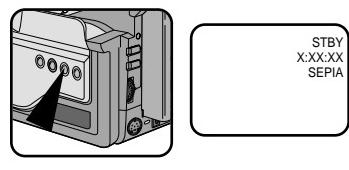
**Note:** DSE function will not operate in EASY or CUSTOM modes.

## Advanced Recording

---

### Selecting and recording DSE effects

1. Set the power switch to CAMERA mode.
2. Press the DSE button, SEPIA will be displayed.
3. Keep pressing the DSE button, until the desired mode is displayed.
4. Press the START/STOP button to start recording.
5. To exit the DSE functions, press the DSE button once or several times until no DSE mode is displayed on the Viewfinder.



**Notes:** ■ It is recommended that you set the DSE mode in STBY mode.  
■ DSE functions will not operate in the EASY or CUSTOM modes.

## ENGLISH

# Advanced Recording

### Setting and Recording the DATE/TIME

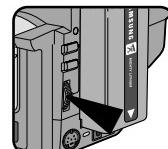
- ⌘ Setting and recording the date/time feature works in the CAMERA mode only.
- ⌘ You can record the date/time on the tapes, so you will know when it was made. The date and time are recorded whenever they are displayed on the viewfinder.

#### Setting a DATE/TIME

- ⌘ Setting the DATE/TIME is possible in STANDBY of CAMERA mode only.
- 1. Make sure that you have installed the LITHIUM BATTERY. (see page 20)  
The LITHIUM BATTERY is needed to maintain the clock.
- 2. Set power switch to the CAMERA mode.
- 3. Press the MENU ON/OFF button, the MENU list will appear.



(MENU)	CUSTOM	SET
CLOCK	SET	
TITLE	SET	
TITLE .....	OFF	
WHT.BAL .....	AUTO	
DISPLAY .....	ON	
EXIT: MENU		



(MENU)	CUSTOM	SET
CLOCK	SET	
TITLE	SET	
TITLE .....	OFF	
WHT.BAL .....	AUTO	
DISPLAY .....	ON	
EXIT: MENU		



● CLOCK SET ●
12:00 AM AUG. 29, 2002



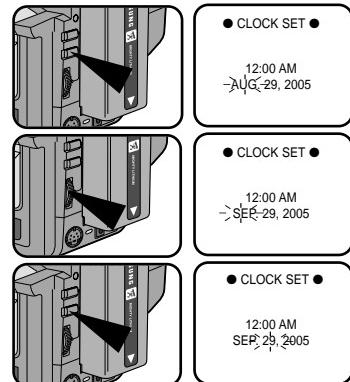
● CLOCK SET ●
12:00 AM AUG. 29, 2005

- 4. Turn the UP/DOWN dial until CLOCK.....SET is highlighted.
- 5. Press ENTER.
  - CLOCK SETTING is possible when the DATE and TIME appear.
  - BLINKING indicates the possible changes for the setting. The year will be the first to blink.

- 6. Turn the UP/DOWN dial to set the desired year.

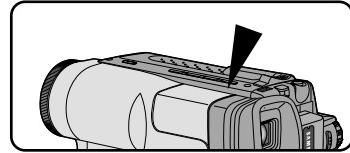
## Advanced Recording

7. Press ENTER.  
■ The month to be reset will blink.
8. Turn the UP/DOWN dial to set the desired month.
9. Press ENTER.  
■ The day to be reset will blink.
10. You can set the year, hour and minute following the same procedure used for setting the year and month.
11. Press ENTER after setting the minute and the clock setting screen will disappear.  
The selected date and time will then be displayed.



### Recording the DATE/TIME

1. Make sure that you have set the DATE/TIME.
2. Set the power switch to CAMERA mode.
3. Press the DATE/TIME button.
  - To record the date only, press the DATE/TIME button once.
  - To record the date and time, press the DATE/TIME button twice.
4. Press the START/STOP button to record the DATE/TIME on your recording.



#### Notes:

- If your date and time settings are not maintained in the camcorder, it means the installed LITHIUM BATTERY is discharged. (see page 20)
- You cannot conceal the recorded date or time during playback.
- The DATE/TIME function cannot be turned off in EASY or CUSTOM mode.

## **ENGLISH**

# **Advanced Recording**

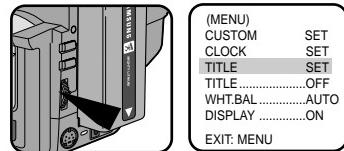
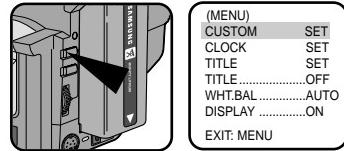
### **Selecting and Recording a Title**

- ⌘ Selecting and recording a TITLE is possible in the CAMERA mode only.
- ⌘ The TITLE feature allows you to select a preset title stored in the camcorder's memory.
- ⌘ You can also select the language of the titles.

### **Selecting a Language and Setting a Title**

- ⌘ Selecting a language is possible in STANDBY in CAMERA mode only.
- ⌘ The factory default language is ENGLISH.  
You can change the language.

1. Make sure that you have installed the LITHIUM BATTERY or have the AC adapter attached.
2. Set the power switch to the CAMERA mode.
3. Press the MENU ON/OFF button.  
Then the MENU list will appear.

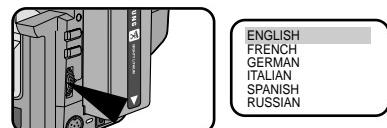


4. Turn the UP/DOWN dial until TITLE.....SET is highlighted.
5. Press ENTER.
  - A list of available languages will appear.



## Advanced Recording

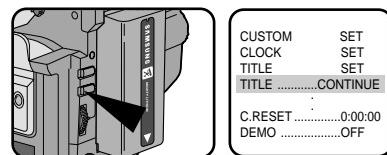
6. Turn the UP/DOWN dial to select the appropriate language.
  - You may select languages from ENGLISH/FRENCH/GERMAN/ITALIAN/SPANISH/RUSSIAN.
7. Press ENTER.
  - Then, the title list in the language you chose will appear.
8. Turn UP/DOWN dial to whichever TITLE you desire.
9. Press ENTER.
  - The selected title will appear on the screen for 2 ~ 3 seconds and will disappear. At the same, the camcorder will return to the menu mode.



### Recording a Title

**Note:** ■ Make sure that you have selected a TITLE from the TITLE list.

1. Set power switch to CAMERA mode.
2. Press MENU.
3. Turn the UP/DOWN dial until TITLE.....OFF is highlighted.
4. Press ENTER to choose between OFF, AUTO-10S and CONTINUE.
5. Press START/STOP button to record the title with your picture.
  - If you want to change TITLE recording time, select title recording time (OFF, AUTO-10S, CONTINUE) on MENU.



**Notes:** ■ The title moves horizontally from the right side to the left side 10 seconds after you turn on the title.  
■ MENU ON/OFF function will not operate in EASY, REC or CUSTOM mode.

## ENGLISH

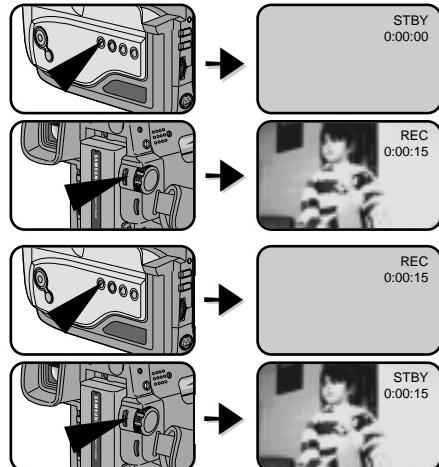
# Advanced Recording

### Fade In and Out

- ⌘ The FADE function works in CAMERA mode only.
- ⌘ You can give your films a professional look by using special effects such as fading in and out at the beginning or end of a sequence.

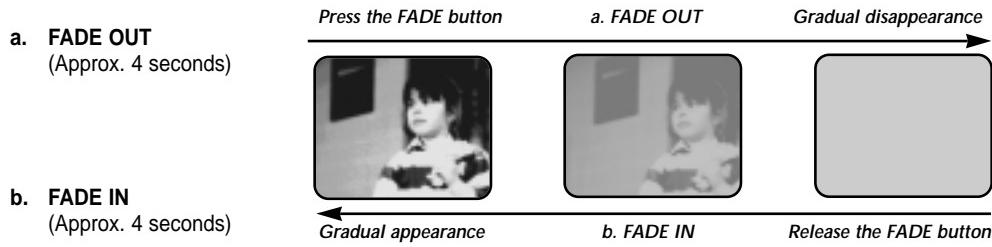
#### To Start Recording

1. Before recording, hold down the FADE button.  
The picture and sound gradually disappear (fade out).
2. Press the START/STOP button and at the same time release the FADE button.  
Recording starts and the picture and sound gradually appear (fade in).



#### To Stop Recording (using FADE IN / FADE OUT)

3. When you wish to stop recording, hold down the FADE button.  
The picture and sound gradually disappear (fade out).
4. When the picture has disappeared, press the START/STOP button to stop recording.



**Note:** The FADE function will not operate in EASY mode.

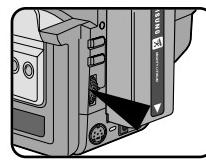
## Advanced Recording

### **White Balance**

- ⌘ WHITE BALANCE is a recording function that preserves the unique color of the object in any recording condition.
- ⌘ You may select the appropriate WHITE BALANCE mode to obtain good quality color of the image.
  - AUTO: This mode is generally used to control the WHITE BALANCE automatically.
  - INDOOR: controls WHITE BALANCE according to the indoor ambience.
  - OUTDOOR: controls WHITE BALANCE according to the outdoor ambience.

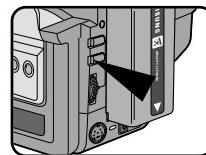
#### **Setting a White Balance Mode**

1. Set the power switch to CAMERA mode.
2. Press the MENU ON/OFF button, then the MENU list will appear.
3. Turn the UP/DOWN dial until WHT.BAL.....AUTO is highlighted.

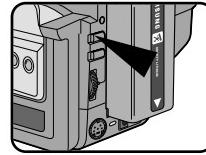


(MENU)	CUSTOM	SET
CLOCK	SET	
TITLE	SET	
TITLE.....	OFF	
WHT.BAL.....	AUTO	
DISPLAY .....	ON	
EXIT: MENU		

4. Press ENTER.
  - You can set it to INDOOR or OUTDOOR by pressing the ENTER button.
5. Press the MENU ON/OFF button to exit the WHITE BALANCE setting screen.



(MENU)	CUSTOM	SET
CLOCK	SET	
TITLE	SET	
TITLE.....	OFF	
WHT.BAL.....	OUTDOOR	
DISPLAY .....	ON	
EXIT: MENU		



STBY	0:00:01
OUTDOOR	

**Note:** The MENU ON/OFF function will not operate in EASY, REC or CUSTOM mode.

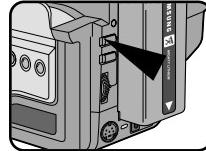
## ENGLISH

# Advanced Recording

### Demonstration

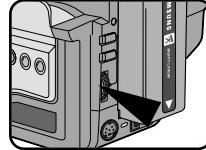
- ⌘ Demonstration automatically shows you the major functions that are included with your camcorder so that you may use them more easily.
- ⌘ The DEMO function is only available in CAMERA mode when you are not recording.
- ⌘ The Demonstration operates repeatedly until the POWER switch set to OFF.

1. Set the power switch to CAMERA mode.
2. Press the MENU ON/OFF button, the MENU list will appear.



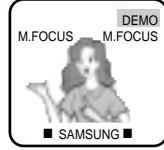
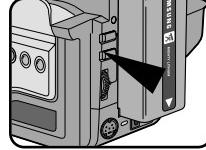
(MENU)	
CUSTOM	SET
CLOCK	SET
TITLE	SET
C.RESET .....:0:00:00	
DEMO .....:OFF	
EXIT: MENU	

3. Turn the UP/DOWN dial so that DEMO is highlighted.



(MENU)	
CUSTOM	SET
CLOCK	SET
TITLE	SET
C.RESET .....:0:00:00	
DEMO .....:OFF	
EXIT: MENU	

4. Press ENTER to select ON.
  - Demonstration will start.



5. Set the POWER switch to OFF to end the Demonstration.

**Note:** The MENU ON/OFF function will not operate in EASY, REC or CUSTOM mode.

## Advanced Recording

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### *Lighting Techniques*

- ⌘ When you use your camcorder, there are only two possible recording environments.
  - You will be recording outdoors (Normal recording or through an ND(Neutral Density) filter).
  - You will be recording indoors (Video light recommended or required).
- ⌘ The single greatest influence on picture quality is the level of brightness, measured in lux.
- ⌘ The following table lists a few common situations, the corresponding level of brightness and any associated recommendations.

Situations	Brightness (lux)	Recommendations
◆ Snow-covered mountains or fields. ◆ Sandy beach on a hot summer's day.	100,000 100,000	ND filter recommended.
◆ On a sunny day in the middle of the afternoon. ◆ On a gloomy day, an hour after the sunrise. ◆ Office with fluorescent lighting near to a window. ◆ On a sunny day, an hour before the sunset. ◆ Department store counter.	35,000 2,000 1,000 1,000 500 to 700	Normal recording.
◆ Room lit by two 30W fluorescent lights.	300	Video light recommended.
◆ Arcade at night. ◆ Candle light.	150 to 200 10 to 15	Video light required.

### *After Recording*

1. Eject the tape that you have recorded. (see page 25)
2. If you want to protect accidental erasure of the tape you have recorded, push the red tab on the cassette.
3. Set the POWER switch to OFF.
4. Close the LENS cover.
5. Remove the BATTERY PACK from the camcorder.

## **ENGLISH**

### **Playing back a Tape**

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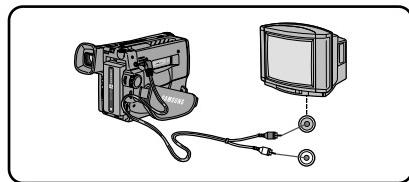
- ⌘ To view a tape that you have recorded.
- ⌘ Playback function works in PLAYER mode only.
  - To see with TV monitor: recommended for indoor use.

#### **To watch with TV monitor**

- ⌘ It is practical to use a TV monitor to view tapes indoors.
- ⌘ To play a tape back, the TV must feature a compatible color system. (NTSC)  
(see page 56)

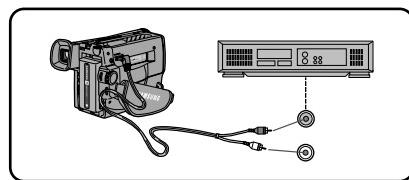
#### **Connecting to a TV which has an Audio and Video input jack**

- ⌘ Use the Audio/Video cable supplied with your camcorder.
  - The yellow plug: Video
  - The white plug: Audio(L)



#### **Connecting to a TV which has no Audio and Video input jack**

- ⌘ You can connect your camcorder to a TV through a VCR.
  - Set the input selector on the VCR to LINE.
  - The yellow plug: Video
  - The white plug: Audio(L)
- ⌘ To view the cassette on the television screen, select the channel reserved for your VCR on the television.  
(Refer to your VCR or television instruction book.)



## Playing back a Tape

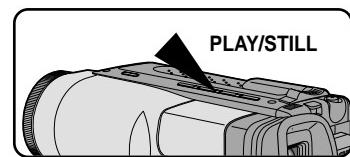
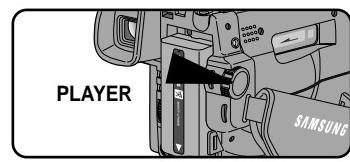
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**Notes:**

- SCW61/W62 feature a monaural audio system.
- If your TV or VCR are stereo, connect the audio cable to input "L" of your TV or VCR.
- You can use an S-VIDEO cable to obtain better quality pictures if you have an S-VIDEO connector on your TV.

**Playback**

1. Use the TV/VIDEO button to select VIDEO on your TV.
2. Connect power source (battery or AC Power Adapter) to the camcorder.  
Set the power switch to PLAYER mode.
3. Insert a tape you want to see.
  - Make sure that STOP is displayed.
4. Press the **▶■** (PLAY/STILL) button.
  - The picture you recorded appears on the TV after 2 to 3 seconds.
  - Press ■ (STOP) to stop playing.
  - If the tape reaches its end during playback, the tape will rewind automatically.



**Notes:**

- The system are selected automatically, depending on the tape format.
- SCW61/W62 can playback both Hi8 and 8mm tapes.
- This camcorder does not support LP recording and playback.

## **ENGLISH**

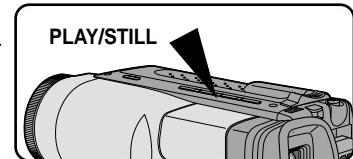
# **Playing back a Tape**

### **Various Functions in PLAYER mode**

#### **To view a STILL picture (Playback pause)**

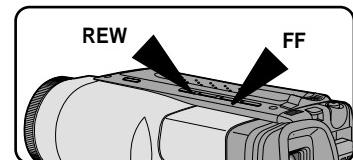
- Press ►|| (PLAY/STILL) button during playback.
- To resume playback, press ►|| (PLAY/STILL) button again.

**Note:** Your camcorder will automatically stop if it is left for more than 5 minutes in STILL mode without operation in order to prevent tape and head-drum wear.



#### **To locate a scene (picture search)**

- Press ►► (FF) or ◀◀ (REW) buttons during playback.  
To resume normal playback, release the buttons.



## Playing back a Tape

---

### ***Multi Playback (using the PAL60 System)***

- ⌘ This Camcorder can convert an NTSC tape recorded in the SP mode to the "PAL60" format, allowing you to view it on a PAL TV which has Vertical sync adjustment circuitry for 60Hz.  
- "PAL60" is a special output signal format with which a PAL TV can be used to view a tape recorded by an NTSC recorder.

1. Set POWER switch to PLAYER mode.
2. Insert an NTSC tape you want to see.
3. Press MENU ON/OFF button, then the MENU list will appear.
4. Turn the UP/DOWN dial to "PAL CONV.OFF"
5. Press ENTER, then it will change to "PAL CONV.PAL60"  
■ Now you can see the picture by pressing the PLAY button.
6. Press MENU ON/OFF button to end setting.

- Notes:**
1. This Camcorder can not record using the "PAL60" system.
  2. When an NTSC tape is being played back, the picture on the PAL monitor screen may shrink in the Vertical direction.
  3. If the signal recorded on the tape is in bad condition, the PAL60 playback system may malfunction.
  4. A PAL recorded tape can not be played back on this camcorder.

## ENGLISH

# Playing back a Tape

### DSE in PLAYER mode

- ⌘ The procedure for using DSE in PLAYER mode is the same as the procedure for using DSE in CAMERA mode, except that the power switch must be set to PLAYER instead of CAMERA. Please refer to pages 40 and 41.

**Note:** The NEG., MIRROR, MOSAIC, CINEMA and WIDE (16:9) effects will not operate when your camcorder is in PLAYER mode.

- ⌘ Pressing the DSE button will scroll through the available settings. Stop at the one you require.

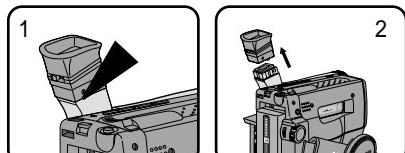
# Maintenance

### Cleaning and Taking care of the Camcorder

#### Cleaning the Viewfinder

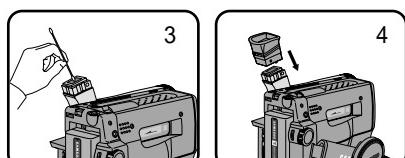
##### ◆ Releasing the Eyecup

1. Pull the VIEWFINDER up and then turn the screw counter-clockwise.
2. Pull the EYECUP out.
3. Clean the EYECUP and the VIEWFINDER screen with a soft cloth and cotton swab or a blower.



##### ◆ Reattaching the Eyecup

4. Put the EYECUP on the VIEWFINDER.
5. Put the screw back on.

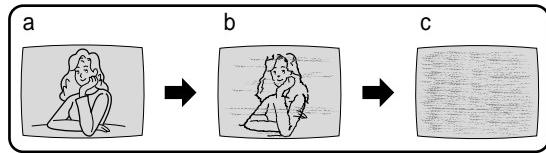


## Maintenance

### Cleaning the Video Heads

- ⌘ To ensure normal recording and clear pictures, clean the video heads.
- ⌘ When the playback pictures are noisy or hardly visible, the video heads may be dirty.

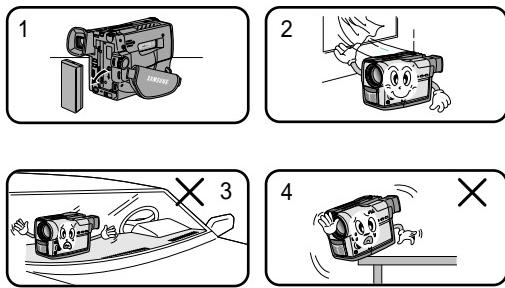
- a. Normal Picture
  - b, c. Noisy Picture  
If this happens, clean the video heads with a dry type cassette cleaner.
1. Set the power switch to PLAYER mode.
  2. Insert the cleaning tape.
  3. Press the **▶II** (PLAY/STILL) button.
  4. Press the **■** (STOP) button after about 30 seconds.



Check the quality of the picture using a video cassette. If it is still bad, repeat the operation.  
If the problem continues, contact your local authorized service center.

### Storing the Camcorder

1. You must detach the BATTERY PACK from the camcorder when storing.
2. Keep the camcorder in a ventilated, dry and warm place.
3. Do not keep the camcorder in a place where the temperature often changes, such as in a car.
4. Keep the camcorder in a stable place.



## **ENGLISH**

# **Using Your Camcorder Abroad**

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### ***Using Your Camcorder Abroad***

- ⌘ Each country or area has its own electric and TV color system.
- ⌘ Before using your camcorder abroad, check the following:

#### **Power sources**

- You can use your camcorder in any country or area that uses 100V to 240V, 50/60 Hz.
- Use a commercially available AC plug adapter, if necessary, depending on the power used.

#### **Color system**

- You can view your recording on the Viewfinder.  
However, to view a recording on a television or to make a copy to a video cassette recorder, the television or VCR must be NTSC or PAL60(Player mode only) compatible and have the appropriate audio/video jacks.

#### **♦ PAL-compatible area**

Australia, Austria, Belgium, Bulgaria, China, CIS, Czech Republic, Denmark, Egypt, Finland, France, Germany, Greece, Great Britain, Holland, Hong Kong, Hungary, India, Iran, Iraq, Kuwait, Libya, Malaysia, Mauritius, Rumania, Saudi Arabia, Singapore, Slovak Republic, Spain, Sweden, Switzerland, Syria, Thailand, Tunisia, etc.

#### **♦ NTSC-compatible area**

Bahamas, Canada, Central America, Japan, Mexico, Philippines, Korea, Taiwan, United States, etc.

**Note:** You can make recordings with your camcorder anywhere in the world.

## Troubleshooting

### *Troubleshooting*

⌘ Before contacting a service center, perform the following simple checks. They might save you the time and expense of an unnecessary call.

#### **Self Diagnosis Display**

Display	Blinking	Inform that...	Action
	slow	the battery pack is almost discharged	Change it to a charged one.
	fast	the battery pack is fully discharged.	Change it to a charged battery.
TAPE END	slow	the tape has almost reached its end.	Prepare a new one.
TAPE END	no	the tape reached its end	Change to a new one.
TAPE	slow	there is no tape in the camcorder.	Insert a tape.
TAPE	slow	the tape is protected from recording.	If you want to record, release the protection.
D.EMG C.EMG R.EMG L.EMG	slow	the camcorder has some mechanical fault.	1. Eject the tape. 2. Set to OFF 3. Detach the battery. 4. Reattach the battery. <small>* Please contact your local service center if the problem continues.</small>
DEW	slow	moisture condensation has formed in the camcorder.	see page 60.

## **ENGLISH**

# **Troubleshooting**

### **Checking**

- ⌘ If you run into any problem using the camcorder, use the following table to troubleshoot the problem.
- ⌘ If these instructions do not allow you to solve the problem, take a note of:
  - The model and serial number marked on the bottom of the camcorder.
  - Your warranty, if applicable.
- ⌘ Then contact your nearest authorized service center.

Symptom	Explanation/Solution
You cannot switch the camcorder on.	◆ Check the battery pack (see page 22) or the AC power adapter. (see page 21)
Start/Stop does not operate while recording	◆ Check the power set it to CAMERA. ◆ You have reached the end of the cassette. ◆ Check the record protection tab on the cassette. (see page 25)
The camcorder goes off automatically.	◆ You have left the camcorder set to STANDBY for more than 5 minutes without using it.(see page 27) ◆ The battery pack is fully used up. (see page 24)
The battery pack is quickly exhausted.	◆ The atmospheric temperature is too low. (see page 24) ◆ The battery pack has not been charged fully.(see page 22) ◆ The battery pack is completely dead, and cannot be recharged. Use another battery pack.
You cannot eject the cassette from the compartment.	◆ The battery pack is fully used up. ◆ A mechanical fault might have occurred. (see page 57)
The DATE/TIME indicator flashes more than 2 times when you set the camcorder to CAMERA.	◆ The lithium battery is not installed or is fully used up. (see page 20)
The playback picture is poor.	◆ The video heads might be dirty. (see page 55)
You cannot operate any functions on the camcorder.	◆ A mechanical fault might have occurred (see page 57).

## Troubleshooting

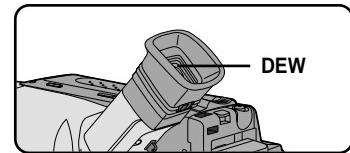
Symptom	Explanation/Solution
A vertical strip appears when you record a bright subject against a dark background (candle flame, for example)	◆ The contrast between the subject and the background is too great for the camcorder to operate normally. Make the background bright to reduce the contrast or use the BLC function while you are recording. (see page 37)
The image in the viewfinder is blurred	◆ The viewfinder lens has not been adjusted. Turn the viewfinder focus ring until the screen comes into sharp focus. (see page 28)
The tape does not move when you press the Play, Fast Forward or Rewind buttons.	◆ Set the POWER switch to PLAYER. ◆ You have reached the beginning or end of the cassette.
The Date/Time or Title disappeared even though you had it set.	◆ The lithium battery is not installed or is fully used up. (see page 20)

## ENGLISH

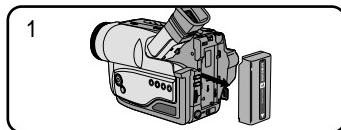
# Troubleshooting

### *Moisture Condensation*

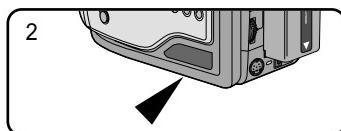
- ⌘ If the camcorder is brought directly from a cold place to a warm place, moisture may condense inside the camcorder, on the surface of the tape, or on the lens. In this condition, the tape may stick to the head drum and be damaged or the unit may not operate correctly.  
To prevent possible damage under these circumstances, the camcorder has a built-in moisture sensor.
- ⌘ If there is moisture inside the camcorder, "DEW" is displayed.  
If this happens, none of the functions except cassette ejection will work.  
Open the cassette compartment and remove the battery for at least two hours in a warm dry room.
- ⌘ Please follow this procedure when the DEW protection feature is unexpectedly activated and you want to override it:  
(Please make sure that the condensation has disappeared completely.)



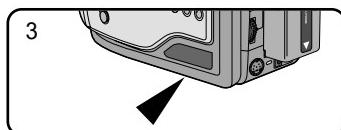
1. Take the battery pack out.



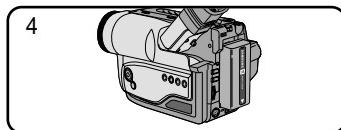
2. Take the lithium battery out.



3. Put the lithium battery back.



4. Put the battery pack back.



## Specifications

**※** These technical specifications and design may be changed without notice.

System	SCW61/W62
Recording system	Video: 2 rotary heads Helical scanning FM Audio: FM monaural system
Video signal	NTSC color, EIA standard
Usable cassette	Hi8 or 8mm
Tape speed	SP: 14.345 mm/sec
Speed mode	Record: SP only, Playback: SP only
Recording time	P6-120: 120 min.
FF or REW time	P6-120: approx. 6.5 min.
Image device	CCD (Charge Coupled Device)
Optical zoom ratio	22x
Focal length: f	3.6 ~ 79.2 mm
F	1.6
Filter diameter	46 mm
Focus system	Inner
Macro	Auto wide macro
Min. Illumination	0.3 lux (visible)
<b>Connectors</b>	
Video out	Mini jack, 1 Vp-p, 75 ohms, Unbalanced
Audio out	Mini jack, 7.7 dBs, imp.: less than 820 ohms
<b>General</b>	
Power requirements	DC 8.4 V (1.5 A)
Power consumption	SCW61/W62: 3.3 W
Built-in mic	Condenser mic, omni-directional
Operating temperature	0°C to 40°C (32°F to 104°F)
Dimension (W*H*D)	101*104*174 (mm) ; 3.97*4.09*6.85 (inches)
Weight	650 g (1.48 lbs)

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**ENGLISH**

## **Warranty**

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**SAMSUNG  
LIMITED WARRANTY**

SAMSUNG Electronics America Inc. (SEA), warrants that this product is free from defective material and workmanship.

SEA further warrants that if product fails to operate properly within the specified warranty period and the failure is due to improper workmanship or defective material, SEA will repair or replace the product at its option.

All warranty repairs must be performed by a SEA authorized service center. The name and address of the location nearest you can be obtained by calling toll free: 1-800 SAMSUNG (1-800-726-7864).

Labor

90 days carry-in

Parts

1 year

On carry-in models, transportation to and from the service center is the customer's responsibility.

The original dated sales receipt must be retained by the customer and is the only acceptable proof of purchase. It must be presented to the authorized service center.

**EXCLUSIONS (WHAT IS NOT COVERED)**

This warranty does not cover damage due to accident, fire, flood and/or other acts of God; misuse, incorrect line voltage, improper installation, improper or unauthorized repairs, commercial use, or damage that occurs in shipping.

Exterior and interior finish, lamps, and glass are not covered under this warranty.

Customer adjustments which are explained in the instruction manual are not covered under the terms of this warranty. This warranty will automatically be voided for any unit found with a missing or altered serial number. This warranty is valid only on products purchased in the United States and Puerto Rico.

Some States do not allow the exclusions or limitations of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

THIS CAMCORDER IS MANUFACTURED BY:



SAMSUNG Electronics America Inc.  
105 Challenger Road, Ridgefield Park N.J 07660-0511  
Tel: 1-800-SAMSUNG  
(1-800-726-7864)

\*Samsung Electronics' Internet Home Page  
<http://www.samsungusa.com>

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